FUJITSU

DATA SHEET

PRIMERGY TX150 S6

Issue: October 2009

Mono socket Quad-Core Intel® Xeon® UP based Tower Server - World class in quality and redundancy

PRIMERGY TX industry standard tower servers: efficient, rock solid, record-breaking performance. PRIMERGY TX servers benefit from over 20 years pioneering work in the field of Green IT. That is how TX servers reach industry – leading performance per watt ratios, lowering the environmental impact and running costs. TX servers can easily be managed locally or remotely via the PRIMERGY ServerView Suite, saving IT admin costs. That's efficient performance. Our made-to-measure service packages take care of your system every step of the way. Rest assured, PRIMERGY TX servers are put through 5000 boot cycles - that's rock solid performance. PRIMERGY TX servers are flexible systems capable of using up to two processors and up to 20 hard disks. Tower to rack mounting kits are available for most TX systems to help you move to a consolidated rack infrastructure. TX servers have a tradition of setting record-breaking performance levels. So, whether you use them as tower or rack servers, for file, print or application purposes, you will benefit from record-breaking performance. PRIMERGY TX: a tower of strength.

PRIMERGY TX150 S6

The PRIMERGY TX150 S6 tower server delivers energy efficient performance with Intel® Xeon® processor 3300 series. This is achieved with up to 1333 MHz FSB clock rate and with Intel's multi-core optimized microarchitecture. A server with this processor proves to be a particularly powerful system that can respond quickly to your requirements. . This sixth-generation tower server combines high performance with low noise. The 3.5-inch SAS or SATA or 2.5-inch SAS hot-plug hard disks can be replaced easily while the server is in operation. High data security is offered thanks to built-in RAID 1 functionality and an optional ibutton RAID 5 implementation for SATA or a modular RAID for SAS configurations. The standard iRMC S2 (integrated Remote Management Controller) offers enhanced system management and graphics based on IPMI 2.0 technology, and the redundant power supply module further increases operational reliability.

MAIN FEATURES	BENEFITS
ECC, built-in RAID 1 functionality and optional ibutton RAID 5 for SATA or modular RAID for SAS configurations	High security against physical loss of data
Hot-plug HDD infrastructure (standard), Hot-plug redundant PSU (optional) ServerView Local, Service Panel (LSP) optional for customer`s Service on its own	Tailor made availability, offers the security level which is recommended by your individual application demands
Intel Quad-Core processor, provides four execution cores in one physical processor with less power consumption. Energy efficient Intel Celeron processor even more power saving	Allowing the platform to do more in less time, IT departments can consolidate applications and more effectively employ the server with less power consumption
Up to 4x SATA or 4 (6)x SAS/SATA 3.5-inch, up to 8x 2.5-inch SAS hard disks, 6 PCI/PCIe slots, (5 with SAS), 1x Gbit LAN plus extra Service LAN for iRMC S2	Expandability options for further growth
Universal tower-to-rack conversion kit	Investment protection through optional tower to rack conversion kit

Technical details

PRIMERGY TX150 S6								
Housing type	Tower	Tower	Tower	Tower	Rack	Rack	Rack	Rack
Hard disk architecture	3.5” SAS/ SATA	3.5” SAS/ SATA	2.5” SAS	2.5” SAS	3.5” SAS/ SATA	3.5” SAS/ SATA	2.5” SAS	2.5” SAS
Power supply	Hotplug	Standard	Hotplug	Standard	Hotplug	Standard	Hotplug	Standard

Mainboard	
Mainboard type	D 2559
Chipset	Intel® 3210
Processor quantity and type	1 x Intel® Core™2 Duo / Intel® Pentium® Dual-Core processor / Intel® Xeon® processor 3100 / 3200 / 3300 series
Processor	Intel® Xeon® processor X3380 (3.16 GHz, 2 x 6 MB, 1333 MHz)
	Intel® Xeon® processor X3370 (3.00 GHz, 2 x 6 MB, 1333 MHz)
	Intel® Xeon® processor X3360 (2.83 GHz, 2 x 6 MB, 1333 MHz)
	Intel® Xeon® processor X3220 (2.40 GHz, 2 x 4 MB, 1066 MHz)
	Intel® Xeon® processor L3360 (2.83 GHz, 2 x 6 MB, 1333 MHz)
	Intel® Xeon® processor L3110 (3.00 GHz, 6 MB, 1333 MHz)
	Intel® Xeon® processor E3120 (3.16 GHz, 6 MB, 1333 MHz)
	Intel® Xeon® processor E3110 (3.00 GHz, 6 MB, 1333 MHz)
	Intel® Pentium® processor E6300 (2.80 GHz, 2 MB, 1066 MHz)
	Intel® Pentium® processor E5200 (2.50 GHz, 2 MB, 800 MHz)
	Intel® Core™2 Duo processor E7600 (3.06 GHz, 3 MB, 1066 MHz)
	Intel® Core™2 Duo processor E7400 (2.80 GHz, 3 MB, 1066 MHz)
Memory slots	4 (2 banks with 2 slots each)
Memory slot type	PC2-6400 (unbufferd DIMM DDR2 800 ECC)
Memory capacity (min. - max.)	1 GB - 8 GB
Memory protection	Advanced ECC
Memory notes	Mix and match possible; with dual channel operation better performance (2 modules with equal capacity necessary). Single channel (1 module) configuration possible.
Memory options	4 GB (1 module(s) with 4 GB) DDR2, unbuffered, ECC, 800 MHz, PC2-6400
	2 GB (1 module(s) with 2 GB) DDR2, 800 MHz, PC2-6400
	1 GB (1 module(s) with 1 GB) DDR2, 800 MHz, PC2-6400

Interfaces	
USB ports	8 x USB 2.0 (1x front, 4x rear, 3x internal)
Graphics (15-pin)	1 x VGA
Serial 1 (9-pin)	1 x serial RS-232-C, usable for iRMC or system or shared
Serial 2 (9-pin)	1 x serial RS-232-C (optional)
Parallel (25-pin)	1 x Centronics 25-pin EPP/ECP compatible (option)
Mouse / Keyboard (PS/2)	2
LAN / Ethernet (RJ-45)	1 x Gbit/s Ethernet
Service LAN (RJ45)	1 x dedicated service LAN port for iRMC S2 (10/100 Mbit/s) Service LAN traffic can be switched to shared onboard Gbit LAN port

Onboard or integrated Controller	
RAID Controller	Integrated RAID 0/1 or RAID 5/6 controller for SAS base units (occupies one PCIe slot). See under Components RAID controller
SATA Controller	Intel® ICH9R, 2 ports used for accessible drives 4 port for internal SATA HDDs with RAID 0, 1, 10 for Windows and Linux; RAID 5 iButton optional
LAN Controller	BCM 5755, 10/100/1000 Mbit/s Ethernet, PXE-Boot via LAN from PXE server, iSCSI Boot (also diskless) via onboard LAN

Onboard or integrated Controller								
Remote Management Controller	Integrated Remote Management Controller (iRMC S2, 32 MB attached memory incl. graphics controller), IPMI 2.0 compatible							
Trusted Platform Module (TPM)	Infineon / 1.2 (option)							
Slots								
PCI-Express x8	2 x short							
PCI-Express x4 (mech. x8)	1 x short							
PCI slots	3 x PCI 32/33 MHz, 2x long, 5V							
Slot Notes	in SAS configuration 1x PCI-Express occupied by modular RAID controller							
Drive bays								
Accessible drive bays	3 x 5.25/1.6-inch 1 x 3.5/1-inch for FDD							
Notes accessible drives	all possible options described in relevant system configurator							
Drive bays (Base unit specific)								
Hard disk bays	4 x 3.5-inch non hot-plug SATA	4 x 3.5-inch hot-plug SAS/ SATA	8 x 2.5-inch hot-plug SAS	8 x 2.5-inch hot-plug SAS	4 x 3.5-inch hot-plug SAS/ SATA	4 x 3.5-inch hot-plug SAS/ SATA	8 x 2.5-inch hot-plug SAS	8 x 2.5-inch hot-plug SAS
Optional hard disk bays	2 x 3.5-inch hot-plug HDD box	2 x 3.5-inch hot-plug HDD box	-	-	2 x 3.5-inch hot-plug HDD box	2 x 3.5-inch hot-plug HDD box	-	-
Operating panel								
Operating buttons	On/off switch NMI button Reset button							
Status LEDs	System status (amber / yellow) Identification (blue) Hard disks access (green) Power (amber / green) At system rear side: System status (amber / yellow) Identification (blue) LAN connection (green) LAN speed (green / yellow)							
Service display	Optional: ServerView Local Service Panel (LSP)							
BIOS								
BIOS features	ROM based setup utility Recovery BIOS BIOS settings save and restore Local BIOS update from USB device Online update tools for main Windows and Linux versions Local and remote update via ServerView Update Manager SMBIOS V2.4 Remote PXE boot support Remote iSCSI boot support							
Supported operating systems								
Supported operating systems	Microsoft® Windows Server® 2008 Microsoft® Windows Server® 2003 Novell SUSE Linux Enterprise Server Red Hat Enterprise Linux Note: Support of other Linux derivatives on demand							
Operating system release link	http://ts.fujitsu.com/software http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421							

Server Management	
Standard	PDA Prefailure Detection and Anaylsis ASR&R Automatic Server Recovery and Restart ServerView Suite: SV Installation Manager SV Operation Manager SV RAID Manager SV Update Management SV Power Management SV Agents Online update packages for BIOS, firmware drivers and ServerView Agents ServerView Integration solutions for Microsoft SMS, MOM, SCOM, SCCM and Altiris Deployment Solution ServerView Deployment Manager (fully functional 30-day trial version) ServerView Integration solutions for Microsoft SMS, MOM, SCOM, SCCM and Altiris Deployment Solution ServerView Deployment Manager (fully functional 30-day trial version)
Option	ServerView Integration for Tivoli TEC®, Tivoli NetView, HP NNM and HP Operations Manager iRMC S2 Advanced Pack
Server Management notes	Regarding Operating System dependencies and product details for ServerView Suite Software Products see dedicated Product Data sheets.

Dimensions / Weight	
Dimension notes	Width 305 mm with tilt protection
Weight	up to 28 kg
Weight notes	Weight may vary depending on actual configuration
Rack integration kit	Rack integration kit as option

Dimensions / Weight (Base unit specific)								
Floor-stand (W x D x H)	205 x 605 x 444 mm	205 x 605 x 444 mm	205 x 605 x 444 mm	205 x 605 x 444 mm	-	-	-	-
Rack (W x D x H)	-	-	-	-	482 x 642 x 221 mm	482 x 642 x 221 mm	482 x 642 x 221 mm	482 x 642 x 221 mm
Mounting Depth Rack	-	-	-	-	607 mm	607 mm	607 mm	607 mm
Height Unit Rack					5 U	5 U	5 U	5 U

Environmental	
Noise emission	Measured according to ISO 7779 and declared according to ISO 9296
Sound pressure (LpAm)	26 dB(A) (idle) / 35 dB(A) (operating)
Sound power (LWAd; 1B = 10dB)	4.4 B (idle) / 5.3 B (operating)
Noise notes / description	only with standard fans and standard PSU
Operating ambient temperature	10 - 35°C
Operating relative humidity	10 - 85 % (non condensing)

Electrical values	
Power supply configuration	Base unit specific: 1x standard power supply or 2x hot-plug power supply (1 + 1 redundancy)
Rated voltage range	100 - 240 V
Rated frequency range	50 - 60 Hz
Rated current max.	6 A / 3 A (100 V / 240 V)
Rated current in basic configuration	1.9 A / 0.8 A (100 V / 240 V)
Active power max. (per system unit)	232 W
Apparent power max. (per system unit)	263 VA
Heat emission	835.2 kJ/h (791.8 BTU)

Electrical values (Base unit specific)								
Power supply configuration	2	1	2	1	2	1	2	1
Standard power supply output		350 W		350 W		350 W		350 W
Hot-plug power supply output	400 W	-	400 W	-	400 W	-	400 W	-
Hot-plug power supply redundancy	Yes	No	Yes	No	Yes	No	Yes	No

Compliance	
Germany	GS
Europe	CE
USA/Canada	CSAc/us ULc/us FCC Class A
Global	CB RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronical equipment)
Japan	VCCI
Australia/New Zealand	C-Tick
Taiwan	BSMI
Compliance notes	There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons can be applied for on request.
Compliance link	https://sp.ts.fujitsu.com/sites/certificates/default.aspx

Components

Hard disk drives	SATA, 3 Gb/s, 1000 GB, 7200 rpm, hot plug, 3.5-inch
	SATA, 3 Gb/s, 750 GB, 7200 rpm, hot plug, 3.5-inch
	SATA, 3 Gb/s, 500 GB, 7200 rpm, hot plug, 3.5-inch
	SATA, 3 Gb/s, 250 GB, 7200 rpm, hot plug, 3.5-inch
	SATA, 3 Gb/s, 160 GB, 7200 rpm, hot plug, 3.5-inch
	SAS, 3 Gb/s, 450 GB, 15000 rpm, hot plug, 3.5-inch
	SAS, 3 Gb/s, 300 GB, 15000 rpm, hot plug, 3.5-inch
	SAS, 3 Gb/s, 146 GB, 15000 rpm, hot plug, 3.5-inch
	SAS, 3 Gb/s, 146 GB, 10000 rpm, hot-plug, 2.5-inch
	SAS, 3 Gb/s, 73 GB, 15000 rpm, hot plug, 3.5-inch
	SAS, 3 Gb/s, 73 GB, 10000 rpm, hot-plug, 2.5-inch
	SAS, 3 GB/s, 300 GB, 10000 rpm, hot-plug, 2.5-inch
Hard disk notes	Mix of 3.5-inch SAS and SATA HDD requires separate HDD cages and RAID sets One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. Accessible capacity may vary, also depending on used software
Tape Drives	DDS Gen5, 36 GB , 3 MB/s, half height, USB 2.0
	DDS Gen6, 80 GB , 6 MB/s, half height, SCSI U160
	DDS Gen6, 80 GB , 6 MB/s, half height, USB 2.0
	LTO2HH Ultrium, 200 GB , 24 MB/s, half height, SCSI U160
	LTO3HH Ultrium, 400 GB , 60 MB/s, half height, SAS 3Gb/s
	LTO3HH Ultrium, 400 GB , 60 MB/s, half height, SCSI U320
	LTO4HH Ultrium, 800 GB , 120 MB/s, half height, SAS 3Gb/s
	RDX Drive, 80 GB, 160 GB, 320 GB , 25 MB/s, half height, USB 2.0
Optical drives	1.44 MB Floppy
	Blu-ray combo drive, (2x BD-ROM; 8x DVD; 24x CD), slimline, SATA I
	Blu-ray combo drive, (6x BD-ROM; 16x DVD; 40x CD), half height, SATA I
	DVD-ROM, (16xDVD; 48xCD), half height, SATA I
	DVD Super Multi, (16xDVD, 8xDVD+RW 6xDVD-RW, 12xDVD-RAM; 48xCD, 32xCD-RW), half height, SATA I
	DVD Super Multi, (8x DVD/DVD+RW, 6x DVD-RW, 5x DVD-RAM; 24x CD/CD-R, 16x CD-RW), slimline, SATA I
SCSI / SAS Controller	SCSI Ctrl 320 MB 1ch int/ext PCIe x1
	SAS Ctrl 3 Gb 4 ports int. / 4 ports ext. PCIe x4

RAID Controller	RAID 5/6 Ctrl, SAS/SATA 3 Gb, LSI MegaRAID SAS8880E, 8 ports ext. RAID level: 0, 1, 10, 5, 50, 6, 60, 512 MB Cache, no BBU support (based on LSI 1078)
	RAID 5/6 Ctrl, SAS/SATA 3 Gb, LSI MegaRAID SAS8880E, 8 ports ext. RAID level: 0, 1, 10, 5, 50, 6, 60, 512 MB Cache, inclusive BBU (based on LSI 1078)
	Integrated SW RAID 5, SATA II 3 Gb, LSI Embedded MegaSR RAID5, RAID level: 0, 1, 10, no BBU support
	Integrated RAID 5/6 Ctrl, SAS/SATA 3 Gb, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 512 MB Cache, optional BBU (based on LSI 1078)
	Integrated RAID 5/6 Ctrl, SAS/SATA 3 Gb, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 256 MB Cache, optional BBU (based on LSI 1078)
	Integrated RAID 0/1 Ctrl, SAS/SATA 3 Gb, 8 ports int. RAID level: 0, 1, 1E, no BBU support (based on LSI 1068e)
	Integrated RAID 0/1 Ctrl, SAS/SATA 3 Gb, 4 port int. RAID level: 0, 1, 1E, no BBU support , for internal SAS tapes (based on LSI 1064e)
LAN Controller	Ethernet Ctrl 1 x 1 Gb Intel® Gigabit CT Desktop Adapter
	Ethernet Ctrl 1 x 1 Gb Intel® PRO/1000 GT Desktop Adapter
	Ethernet Ctrl 1 x 1 Gb Intel® PRO/1000 PF Server Adapter
	Ethernet Ctrl 1 x 1 Gb Intel® PRO/1000 PT Server Adapter
	Ethernet Ctrl 2 x 1 Gb Intel® PRO/1000 PT Dual Port Server Adapter
	Ethernet Ctrl 4 x 1 Gb Intel® PRO/1000 PT Quad Port Server Adapter
Rack infrastructure	Cable Arm 2U for 3rd party racks
	Cable Management for 19-inch DataCenter / PRIMECENTER Racks
	Rackmount kit full extraction (760mm), tool less mounting

Warranty	
Standard Warranty	1 year
Service level	On-site Service (depending on country)
Maintenance and Support Services - the perfect extension	
Recommended Service	7x24, Onsite Response Time: 4h
Service Weblink	http://ts.fujitsu.com/Supportservice

Information about environmental care, policies, programs and our Environmental Guideline FSC 03230:
http://ts.fujitsu.com/aboutus
Take back and Recycling information:
http://ts.fujitsu.com/recycling

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